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APPLICATION NO.	FILI	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,737	07/24/2003		Koji Dairiki	0756-7176	8059
31780	7590	08/08/2005		EXAMINER	
ERIC ROBI	INSON		GUERRERO, MARIA F		
PMB 955 21010 SOUTHBANK ST.				ART UNIT	PAPER NUMBER
	POTOMAC FALLS, VA 20165			2822	
	•		·	DATE MAILED: 08/08/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)					
	10/625,737	DAIRIKI, KOJI					
Office Action Summary	Examiner	Art Unit					
	Maria Guerrero	2822					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 							
Status							
1) Responsive to communication(s) filed on 18 Ma	ay 2005.						
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
. 4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.							
4a) Of the above claim(s) <u>2,4,6,8,10 and 12</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,3,5,7,9,11 and 19-21</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No. 09/970,908.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
A44a a b a 44 3							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)					
2) Notice of References Cited (PTO-092) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)					

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DETAILED ACTION

1. This Office Action is in response to the Amendment filed May 18, 2005.

Status of Claims

2. Claims 1-21 are pending.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/970,908, filed on October 5, 2001.

Election/Restrictions

4. Claims 2, 4, 6, 8, 10, and 12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on December 16, 2004. Claims 13-18 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Information Disclosure Statement

5. The Information Disclosure Statement filed July 24, 2003 has been considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 3, 5, 7, 9, 11 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakurai et al. (US 6,333,493) in view of Rabinowitz (US 3,612,939).

Sakurai et al. discloses heating a treatment object by irradiating it through radiation from a lamp light source (halogen lamp) (col. 7, lines 8-15, col. 12, lines 65-67, col. 13, lines 1-3). Sakurai et al. shows holding the treatment object in a processing chamber filled with a coolant (increasing the amount of the coolant is inherent because a control device has been used during the process) (Fig. 18, col. 7, lines 19-24). Sakurai et al. teaches the radiation from the lamp light source being 10 or 20 seconds at

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a time and repeating several times (col. 1, lines 65-67, col. 2, lines 1-5, col. 8, lines 48-60, col. 9, lines 25-30, col. 11, lines 23-30, col. 13, lines 53-57, col. 18, lines 20-35, col. 19, lines 5-18, col. 22, lines 13-35, col. 24, lines 23-37, col. 25, lines 5-10). Sakurai et al. shows the input voltage is controlled at an interval of 0.5 seconds so as to stabilize the temperature with the temperature set in advance by the control device (col. 9, lines 14-20). Sakurai et al. discloses turning off the lamp light source and cooling the object (col. 10, lines 37-47).

Sakurai et al. does not specifically show the specific range as claimed. However, in the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990).

Sakurai et al. does not specifically show applying a coolant to the treatment object and the coolant being nitrogen or helium. However, Sakurai et al. discloses cooling the treatment object (col. 10, lines 37-47). In addition, Rabinowitz is presented as evidence to show that applying a coolant to the treatment object and the coolant being nitrogen or helium is conventional in the art (col. 7, lines 20-57).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to recognize that the claimed range overlaps or lies inside the range disclosed by Sakurai et al. and a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990). In addition, a prior art reference that discloses a range encompassing a somewhat narrower claimed range is sufficient to establish a

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prima facie case of obviousness." In re Peterson, 315 F.3d 1325, 1330, 65 USPQ2d 1379, 1382-83 (Fed. Cir. 2003).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to specify the step of applying a coolant to the treatment object and the coolant being nitrogen or helium as taught by Rabinowitz in order to cool the treatment object without causing any damage to the structure while avoiding thermal stress.

7. Claims 1 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takemura (US 5,530,265) (cited on IDS).

Takemura discloses heating a treatment object by irradiating it through radiation from a lamp light source (halogen lamp) (col. 6, lines 3-65, col. 9, lines 34-45, col. 1, lines 20-25). Takemura teaches irradiating for 10 to 1,000 seconds and repeating the radiation (Fig. 7B, col. 6, lines 55-60, col. 9, lines 35-67). Takemura describes the cooling process being air-cooling (Fig. 7A-7B, col. 9, lines 45-67).

Takemura does not specifically show the specific range as claimed. However, in the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to recognize that the claimed range overlaps or lies inside the range disclosed by Takemura and a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575,

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16 USPQ2d 1934 (Fed. Cir. 1990). In addition, a prior art reference that discloses a range encompassing a somewhat narrower claimed range is sufficient to establish a prima facie case of obviousness." In re Peterson, 315 F.3d 1325, 1330, 65 USPQ2d 1379, 1382-83 (Fed. Cir. 2003).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. Claims 1, 3, 5, 7, 9, 11 and 19-21 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13-28 of copending Application No. 10/001,197. Although the conflicting claims are not identical, they are not patentably distinct from each other because the basic steps of heating by irradiating through radiation from a lamp light, cooling by applying a coolant, and the radiation from the lamp light source lasts 0.1 to 20 seconds are recited by copending Application No. 10/001,197.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to Arguments

9. Applicant's arguments with respect to claims 1, 3, 5, 7, 9, 11 and 19-21 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Guerrero whose telephone number is 571-272-1837.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 29, 2005

MARIA F. GUERRERO
PRIMARY EXAMINER